

AMENDMENT OF THE CLAIMS

Claim 1. (Currently Amended) An optical semiconductor module comprising:

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a mounting member, having an element mounting surface and a contacting surface, said element mounting surface and said contacting surface extending along a reference plane intersecting a predetermined axis;

a first member having a tubular portion, a first end portion and a second end portion, said tubular portion extending in a direction of the predetermined axis, said first end portion being provided at one end of the tubular portion and being ~~arranged~~ mounted on said contacting surface of the mounting member, ~~and~~ said second end portion being provided at the other end of the tubular portion, said first end portion being bonded to said mounting member, and an outer edge of said first end portion being located inside of an edge of said mounting member;

an optical semiconductor element ~~arranged~~ provided in the tubular portion of said first member such that an optical axis thereof is directed in a direction of ~~the~~ said predetermined axis;

a second member having a tubular portion extending in a direction of the predetermined axis, said second member being ~~arranged~~ mounted on the second end of said first member; and

an optical ~~waveguide~~ fiber optically coupled to said optical semiconductor element, said optical ~~waveguide~~ fiber extending in the tubular portion of said second member.

Claim 2. (Currently Amended) An optical semiconductor module according to claim 1, further comprising a ferrule accommodated in the tubular portion of said second member, wherein said ~~optical waveguide includes an~~ optical fiber is supported by said ferrule.

Claim 3. (Original) An optical semiconductor module according to claim 2, further comprising a third member having a tubular portion and a pair of openings, said tubular portion extending in a direction of the predetermined axis and accommodating said second member and said ferrule, and said pair of openings being provided at two ends of the tubular portion;

wherein the optical fiber extends through one of the pair of openings of said third member to reach said ferrule.

Claim 4. (Original) An optical semiconductor module according to claim 2, wherein

said ferrule has first and second end faces, and

the optical fiber extends from the first end face to the second end face of said ferrule.

Claim 5. (Previously Amended) An optical semiconductor module according to claim 4, further comprising a sleeve, said ferrule is inserted in said sleeve;

wherein said second member has a depressed portion provided in an inner wall surface of the tubular portion, and

wherein said sleeve is arranged in the depressed portion of said second member.

Claim 6. (Previously Amended) An optical semiconductor module according to claim 2,
wherein the tubular portion of said second member has first and second portions
arranged in a direction of the predetermined axis,
wherein the first portion accommodates said ferrule, and
wherein the second portion is provided such that another ferrule can be inserted
therein.

Claim 7. (Currently Amended) An optical semiconductor module according to claim 1,
further comprising a lens provided between said optical ~~waveguide~~ fiber and said optical
semiconductor element.

Claim 8. (Original) An optical semiconductor module according to claim 1, wherein
said optical semiconductor element is either one of a light-emitting element and a
light-receiving element.

Claim 9. (Currently Amended) An optical semiconductor module according to claim 1,
wherein said first member is secured to said mounting member at an annular connecting
portion ~~provided to~~ secure ~~surround the optical axis of~~ said optical semiconductor
element.

Claim 10. (Currently Amended) An optical semiconductor module according to claim 1, wherein said mounting member is included in a cylindrical shape having a diameter of not more than 4 mm and a center axis perpendicular to the reference ~~surface~~ plane.

Claim 11. (Previously Amended) An optical semiconductor module according to claim 4, wherein the tubular portion of said second member has first and second portions arranged in a direction of the predetermined axis, wherein the first portion accommodates said ferrule, and wherein the second portion is provided such that another ferrule can be inserted therein.

12. (New) An optical semiconductor module according to claim 4, further comprising a sleeve, said ferrule is inserted in said sleeve; wherein said tubular portion of said second member has first to third portions sequentially arranged in said predetermined axis; wherein said second member has a depressed portion provided in an inner wall surface of said second portion thereof, wherein said sleeve is provided in the depressed portion of said second member, and wherein said inner diameter of said second portion is greater than inner diameters of said first and third portions.

③ Claim 13. (New) An optical semiconductor module according to claim 4,

wherein the tubular portion of said second member has first and second portions arranged in a direction of the predetermined axis,

wherein the first portion accommodates said ferrule, and

wherein the second portion is provided such that another ferrule can be inserted therein.

Claim 14. (New) An optical semiconductor module according to claim 1, wherein said first member is resistance-welded to said mounting member at an annular connecting portion to secure said optical semiconductor element.